## What is claimed is:

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An active endoscopic PhotoDynamic Therapy (PDT) comprising:

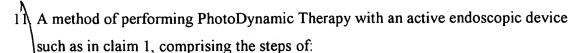
A distal and a proximal end;

A radiation source positioned at said distal end;

Wherein said source provides a diffuse radiation pattern across a section of body tissue, which is large compared to said endoscopic device's distal cross section, and which is in proximity to said distal end; and

Wherein said radiation source is powered remotely and operates at a pre-selected wavelength and power range compatible with requirements of a selected PDT drug.

- 2. An active endoscopic device according to claim 1, wherein said radiation source is a multitude of diodes mounted on said device's distal end so as to create an illumination pattern to effectively irradiate a selected treatment site.
- 3. An active endoscopic device according to claim 2, wherein said diodes are diode lasers.
- 4. An active endoscopic device according to claim 2, wherein said diode lasers comprise lasers operating at different wavelengths.
- 5. An active endoscopic device according to claim 1, wherein said radiation source is provided by chemiluminescence.
- 6. An active endoscopic device according to claim 1, further comprising cooling means.
- 7. An active endoscopic device according to claim 1, further comprising means to deliver a substance which will be activated by said radiation.
- An active endoscopic device according to claim 1, further comprising means to deliver a substance which will be activated by said radiation.
- 9. An active endoscopic device according to claim 1, further comprising at least on balloon to serve as a centering mechanism.
- 10. An active endoscopic device according to claim 9, wherein said homogenizing means is a partially reflective coating on said at least one balloon.



- (a) postioning a catheter/endoscope into a patient and directing it to a predetermined treatment site within said patient.
- (b) Placing said active endoscopic device into said endoscope/catheter and advancing it so that its distal end with its radiation source are at a distal end of said endoscope; and
- (c) Energizing said radiations source and irradiating said selected treatment site for times and periods to achieve said PDT treatment for said selected treatment sites.